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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/708,494

11/09/2000

Pascal A. Nsame

BUR9-2000-0071-US1

2612

29154

7590

02/17/2004

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ANNAPOLIS, MD 21401

EXAMINER

HUYNH, KIM T

ART UNIT

PAPER NUMBER

2112

DATE MAILED: 02/17/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

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## Office Action Summary

Application No.

09/708,494

Applicant(s)

NSAME, PASCAL A.

Examiner

Kim T. Huynh

Art Unit

2112

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 November 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-29 are rejected under 35 U.S.C. 102(e) as being anticipated by  
Swanstrom et al. (US Patent 5,872,942)

As per claims 1, 10, 11, 20, 21, Swanstrom discloses a system-on-a-chip integrated circuit structure comprising:

- a bridge(fig.1, 106) having a plurality of channels; (fig.1, 104,108,120, 130), (col.16, line 62-col.17, 4) wherein each these busses comprising single or multiple channels, ie, multimedia bus (130) comprises separate channels for different data types. (col.4, lines 19-26)
- a processor local bus connected to said bridge, wherein said bridge includes a first channel dedicated to said processor local bus (fig.1, 104); (col.7, lines 49-51)
- at least one logic device (fig.1, 107) connected to said processor local bus; (col.3, lines 11-14)
- a peripheral device bus (fig.1, 120) connected to said peripheral device bus; at least one peripheral device connected to said peripheral device bus; (col.8, lines 6-13)

- at least one memory (fig.1, 110) unit connected to said bridge, wherein said bridge includes a third channel (fig.1, 108) dedicated to said memory unit; (col.4, lines 37-51)
- at least one input/output unit connected to said bridge, wherein said bridge includes a fourth channel (fig.1, 130) dedicated to said input/output unit. (col.5, lines 19-33)

As per claims 2, 12, 22, Swanstrom discloses wherein each of said channels includes buffer memories adapted to stored data when a previous data transfer is being performed. (col.24, lines 14-28)

As per claims 3, 13, 23, swanstrom discloses wherein said buffer memories comprises FIFO buffer memories. (col.24, lines 14-28), buffers inherently includes FIFO.

As per claims 4, 14, 24, Swanstrom discloses a multi-port static random access memory (SRAM) adapted to stored data when a previous data transfer is being performed. (col.24, lines 14-28)

As per claims 5,15, 25, Swanstrom discloses a multiplexor adapted to selectively connect to other channels. (col.17, lines 50-61), (col.18, lines 22-31)

As per claims 6,16, 26, Swanstrom discloses at least one memory unit comprises a first-type memory unit and a second-type memory unit different than said first-type memory unit, wherein said third channel is dedicated to said first-type memory unit and said bridge includes a fifth channel dedicated to said second-type memory unit. (col.4, lines 37-63)

As per claims 7, 17, 27, Swanstrom discloses wherein said first-type memory unit comprises static random access memory (SRAM) and said second-type memory unit comprises synchronous dynamic random access memory (SDRAM). (col.22, lines 20-37)

As per claims 8,18, 28, Swanstrom discloses at least one input/output unit comprises one or more of a peripheral interface, graphics interface, and serial bus interface, and wherein said bridge includes dedicated channels for each of said peripheral interface, graphics interface, and serial bus interface. (col.17, line 50-col.18, line 8)

As per claims 9,19, 29, Swanstrom discloses at least one peripheral device includes one or more of a serial connection, network interface connection, and programmable input/output connection each connected to said peripheral device bus. (col.17, line 20-col.18, line 8)

### ***Response to Amendment***

3. Applicant's amendment filed on 12/19/03 have been fully considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

4. *Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703)305-5384 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 8:30AM- 6:30PM.*

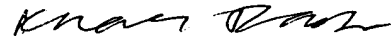
*If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815 or via e-mail addressed to [mark.rinehart@uspto.gov]. The*

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*fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications and After Final communications.*

*Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5631.*



Kim Huynh

Feb. 10, 2004

**Khanh Dang**  
**Primary Examiner**